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Attorney's Docket No.: 14022-011001

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Billiar et al. Art Unit : Unknown
Serial No. : 10/676,280 Examiner : Unknown
Filed : September 30, 2003
Title : TREATMENT FOR HEMORRHAGIC SHOCK

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants submit copies of the references listed on the attached form PTO-1449. A copy of a communication from a foreign patent office in a counterpart application is also enclosed.

Applicants wish to bring to the Examiner's attention the following Non-Provisional applications, all of which have overlapping inventorship with the above-referenced application:

<u>Serial No.</u>	<u>Applicants</u>	<u>Filed</u>	<u>Status</u>
09/538,788	Choi et al.	3/30/00	Abandoned
10/177,930	Bach et al.	6/21/02	Pending
10/053,535	Choi et al.	1/15/02	Pending
10/367,277	Otterbein et al.	2/13/03	Pending
10/371,666	Otterbein et al.	2/21/03	Pending
10/413,817	Otterbein et al.	4/15/03	Pending
10/439,632	Otterbein et al.	5/16/03	Pending
10/455,564	Otterbein et al.	6/05/03	Pending
10/600,182	Bach et al.	6/20/03	Pending

This statement is being filed before the receipt of a first Office action on the merits.

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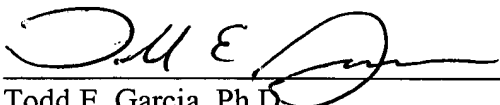
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Page : 2 of 2

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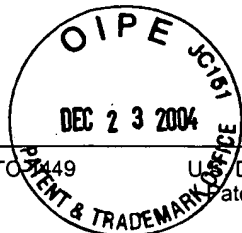
Respectfully submitted,

Date: 12/23/04



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Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14022-011001	Application No. 10/676,280
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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A1	4,053,590	10/11/77	Bonsen et al.			
	A2	4,264,739	4/28/81	Grabner et al.			
	A3	4,923,817	5/8/90	Mundt			
	A4	5,180,366	01/19/93	Woods			
	A5	5,240,912	8/31/93	Todaro			
	A6	5,449,665	09/12/95	Sollevi			
	A7	5,476,764	12/19/95	Bitsensky			
	A8	5,763,431	06/9/98	Jackson			
	A9	5,792,325	08/11/98	Richardson, Jr.			
	A10	5,882,674	03/16/99	Herrmann et al.			
	A11	5,885,621	3/23/99	Head et al.			
	A12	6,066,333	05/23/00	Willis et al.			
	A13	6,313,144	11/6/01	McCullough et al.			
	A14	6,316,403	11/13/01	Pinsky et al.			
	A15	200300664114	04/03/03	Motterlini et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	B1	JP 56079957A	06/30/81	Japan			English Abstract by Derwent Information Ltd	
	B2	WO 95/35105	12/28/95	WIPO				
	B3	WO 98/08523	03/05/98	WIPO			X	
	B4	WO 98/13058	04/02/1998	WIPO				
	B5	WO 02/09731	02/07/02	WIPO			English Abstract	
	B6	WO 03/000114	01/03/03	WIPO				
	B7							

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	C1	Abidin <i>et al.</i> , "The Combined Effect of Carbon Monoxide and Normobaric Hyperoxia on Animals", <i>Kosmicheskaya Biologiya I Aviakosmicheskaya Meditsina</i> 6: 63-67 (1978)
	C2	Arita <i>et al.</i> , "Prevention of Primary Islet Isograft Nonfunction in Mice with Pravastatin," <i>Transplantation</i> 65:1429-33 (1998)
	C3	Arnush <i>et al.</i> , "IL-1 Produced and Released Endogenously within Human Islets Inhibits β Cell Function," <i>J. Clin Invest.</i> 102:516-26 (1998)
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	C5	Berney <i>et al.</i> , "Islet cell transplantation: the future?" <i>Langenbeck's Arch. Surg.</i> 385: 373-8 (2000)
	C6	Bentley <i>et al.</i> , "Successful Cardiac Transplantation with Methanol or Carbon Monoxide-Poisoned Donors," <i>Thorac Surg</i> 71(4):1194-7 (2001)
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	C8	Brown <i>et al.</i> , "In vivo binding of carbon monoxide to cytochrome <i>c</i> oxidase in rat brain", American Physiological Society, pp 604-610 (1990)
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	C13	Cardell <i>et al.</i> , "Bronchodilatation <i>in vivo</i> by carbon monoxide, a cyclic GMP related messenger", <i>British J. of Pharmacology</i> 124:1065-1068 (1998)
	C14	Carlsson <i>et al.</i> , "Measurements of Oxygen Tension in Native and Transplanted Rat Pancreatic Islets," <i>Diabetes</i> 47:1027-32 (1998)
	C15	Carraway <i>et al.</i> , "Induction of ferritin and heme oxygenase-1 by endotoxin in the lung", <i>Am J Physiol Lung Cell Mol Physiol</i> 275:L583-592 (1998)
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	C18	Chapman <i>et al.</i> , "Exogenous Carbon Monoxide Attenuates Aeroallergen-induced Eosinophilic Inflammation in Mice", <i>J Respiratory Critical Care Med</i> 159(3):A218 (1999)
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	C20	Choi <i>et al.</i> , "Heme Oxygenase-1: Function, Regulation, and Implication of a Novel Stress-inducible Protein in Oxidant-induced Lung Injury", <i>Am. J. Respir. Cell Mol. Biol.</i> 15:9-19 (1996)
	C21	Choi, "HemeOxygenase-1 Protects the Heart," <i>Circulation Research</i> 89:105-107 (2001)
	C22	Christodoulides <i>et al.</i> , "Vascular Smooth Muscle Cell Heme Oxygenases Generate Guanylyl Cyclase-Stimulatory Carbon Monoxide," <i>Circulation</i> 97:2306-9 (1995)

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	C23	Clayton et al., "Inhaled carbon monoxide and hyperoxic lung injury in rats," <i>Am. J. Physiol. Lung Cell Mol. Physiol.</i> 281:L949-57 (2001)
	C24	Corbett et al., "Nitric oxide mediates cytokine-induced inhibition of insulin secretion by human islets of Langerhans," <i>Proc. Natl. Acad. Sci USA</i> 90:1731-5 (1993)
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	C30	Gaine et al., "Induction of Heme Oxygenase-1 with Hemoglobin Depresses Vasoreactivity in Rat Aorta," <i>J Vasc Res</i> 36(2):114-9 (1999)
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	C33	Hantson et al., "Organ Transplantation From Victims of Carbon Monoxide Poisoning," <i>Ann Emerg Med</i> 27(5):673-4 (1996)
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	C36	Iberer et al., "Cardiac Allograft Harvesting after Carbon Monoxide Poisoning. Report of a Successful Orthotopic Heart Transplantation," <i>J Heart Lung Transplant</i> 12(3):499-500 (1993)
	C37	Katori et al., "Heme Oxygenase-1 System in Organ Transplantation", <i>Transplantation</i> 74(7):905-912 (2002)
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	C41	Lacy et al., "Transplantation of Pancreatic Islets," <i>Ann. Rev. Immunol</i> 2:183-98 (1984)
	C42	Lee et al., "Intestinal Motility and Absorption in Acute Carbon Monoxide Poisoning," <i>Seoul J. Med.</i> 15:95-105 (1974)
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	C44	Lefer et al., "A Comparison of Vascular Biological Actions of Carbon Monoxide and Nitric Oxide", <i>Meth Find Exp Clin Pharmacol</i> 15(9):617-622 (1993)

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	C45	Leikin <i>et al.</i> , "The Toxic Patient as a Potential Organ Donor," <i>Am J Emerg Med</i> 12(2):151-4 (1994)
	C46	Mandrup-Poulsen <i>et al.</i> , "Human Tumor Necrosis Factor Potentiates Human Interleukin 1-Mediated Rat Pancreatic β -Cell Cytotoxicity," <i>J. Immunol</i> 139:4077-82 (1987)
	C47	Mansouri <i>et al.</i> , "Alteration of Platelet Aggregation by Cigarette Smoke and Carbon Monoxide," <i>Thromb Haemost</i> 48:286-8 (1982)
	C48	Maxwell <i>et al.</i> , "Studies in Cancer Chemotherapy: XI. The Effect of CO, HCN, and Pituitrin Upon Tumor Growth", Dept. of Cancer Research, Santa Barbara Cottage Hospital, pp 270-282 (Jan. 30, 1933)
	C49	Meilin <i>et al.</i> , Effects of carbon monoxide on the brain may be mediated by nitric oxide", <i>J Appl Physiol</i> 81(3):1078-83 (1996)
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	C53	Moore <i>et al.</i> , "Pre-treatment with Low Concentrations of Carbon Monoxide (250 TO 75 ppm) for 3 hr prior to Laparotomy Protects Against Postoperative Ileus," Digestive Disease Week abstracts and Itinerary Planner 2003: Abstract No. M1337 (2003)
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	C55	Nachar <i>et al.</i> , "Low-Dose Inhaled Carbon Monoxide Reduces Pulmonary Vascular Resistance During Acute Hypoxemia in Adult Sheep," <i>High Altitude Medicine & Biology</i> 2:377-385 (2001)
	C56	Nagata <i>et al.</i> , "Destruction of Islet Isografts by Severe Nonspecific Inflammation," <i>Transplant Proc.</i> 22:855-6 (1990)
	C57	Nakao <i>et al.</i> , "Immunomodulatory effects of inhaled carbon monoxide on rat syngeneic small bowel graft motility," <i>Gut</i> 52:1278-85 (2003)
	C58	The New Encyclopedia Britannica (15 th ed. 1994) Vol. 26, <i>Macropaedia</i> , p. 756
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	C60	Otterbein <i>et al.</i> , "Carbon monoxide has anti-inflammatory effects involving the mitogen-activated protein kinase pathway", <i>Nature Medicine</i> 6(4): 422-8 (2000)
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	C63	Otterbein <i>et al.</i> , "Carbon monoxide suppresses arteriosclerotic lesions associated with chronic graft rejection and with balloon injury," <i>Nature Medicine</i> 9:183-90 (2003)
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	C66	Peek et al., "Extracorporeal Membrane Oxygenation for Adult Respiratory Failure," <i>Chest</i> 112(3):759-64 (1997)
	C67	Petrache et al., "Heme oxygenase-1 inhibits TNF- α -induced apoptosis in cultured fibroblasts," <i>Am. J. Physiol. Lung Cell Mol. Physiol.</i> 287: L312-L319 (2000).
	C68	Piantadosi et al., "Production of Hydroxyl Radical in the Hippocampus After CO Hypoxia Hypoxia in the Rat", <i>Free Radical Biol. & Med.</i> 22(4):725-732 (1997)
	C69	Pozzoli et al., "Carbon Monoxide as a Novel Neuroendocrine Modulator: Inhibition of Stimulated Corticotropin-Releasing Hormone Release from Acute Rat Hypothalamic Explants," <i>Endocrinology</i> 135:2314-2317 (1994)
	C70	Rabinovitch et al., "Transfection of Human Pancreatic Islets With an Anti-Apoptotic Gene (<i>bcl-2</i>) Protects β -Cells From Cytokine-Induced Destruction," <i>Diabetes</i> 48:1223-9, 1999
	C71	Ringel et al., "Carbon Monoxide-induced Parkinsonism", <i>J. neurol. Sci.</i> 16:245-251 (1972)
	C72	Roberts et al., "Successful Heart Transplantation From a Victim of Carbon Monoxide Poisoning," <i>Ann Emerg Med</i> 26(5):652-5 (1995)
	C73	Sato et al., "Carbon Monoxide Generated by Heme Oxygenase-1 Suppresses the Rejection of Mouse-to-Rat Cardiac Transplants," <i>J. Immunol.</i> 166: 4185-4194 (2001)
	C74	Schipper et al., "Expression of Heme Oxygenase-1 in the Senescent and Alzheimer-diseased Brain", <i>Annals of Neurology</i> 37(6): 758-68 (1995)
	C75	Shapiro et al., "Islet Transplantation in Seven Patients with Type 1 Diabetes Mellitus Using a Glucocorticoid-Free Immunosuppressive Regimen," <i>N Engl. J. Med.</i> , 343:230-8, 2000
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	C78	Siow et al., "Heme oxygenase-carbon monoxide signalling pathway in atherosclerosis: anti-atherogenic actions of bilirubin and carbon monoxide?", <i>Cardiovascular Research</i> 41:385-394 (1999)
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	C86	Tulis et al., "Adenovirus-Mediated Heme Oxygenase-1 Gene Delivery Inhibits Injury-Induced Vascular Neointima Formation", <i>Circulation</i> 104:2710-2715 (2001)

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	C87	Utz <i>et al.</i> , "Carbon Monoxide Relaxes Ileal Smooth Muscle Through Activation of Guanylate Cyclase," <i>Biochem Pharmacol.</i> 47:1195-201, 1991
	C88	Vassalli <i>et al.</i> , "Inhibition of Hypoxic Pulmonary Vasoconstriction By Carbon Monoxide in Dogs", <i>European Respiratory Journal</i> , ERS Annual Congress, Geneva, Switzerland, Sept 19-23 (1998)
	C89	Verma <i>et al.</i> , "Carbon Monoxide: A Putative Neural Messenger," <i>Science</i> 259:381-384, 1993
	C90	Verran <i>et al.</i> , "Use of Liver Allografts from Carbon Monoxide Poisoned Cadaveric Donors," <i>Transplantation</i> 62(10):1514-5 (1996)
	C91	Wang <i>et al.</i> , "Resurgence of carbon monoxide: an endogenous gaseous vasorelaxing factor", <i>Can. J. Physiol. Pharmacol.</i> 76:1-15 (1998)
	C92	Weir <i>et al.</i> , "Scientific and Political Impediments to Successful Islet Transplantation," <i>Diabetes</i> 46:1247-56, 1997
	C93	Weir <i>et al.</i> , "Islet transplantation as a treatment for diabetes," <i>J. Am. Optom. Assoc.</i> 69:727-32, 2000
	C94	Welty <i>et al.</i> , "Hyperoxic Lung Injury is Potentiated by SPC-Promotor Driven Expression of an HO-1 Transgene in Mice", <i>J Respiratory Critical Care Med</i> 159(3):A218 (1999)
	C95	Weng <i>et al.</i> , "Transpulmonary HO-1 Gene Delivery in Neonatal Mice", <i>J Respiratory Critical Care Med</i> 159(3):A218 (1999)
	C96	Yuan <i>et al.</i> , "Evidence of increased endogenous carbon monoxide production in newborn rat endotoxiosis," <i>Chinese Medical Sciences Journal</i> (1997), Vol. 12, No. 4, 212-215
	C97	Zuckerbraun <i>et al.</i> , "Carbon monoxide attenuated the development of necrotizing enterocolitis in an animal model," <i>Surgical Infection Society</i> 3:83 (2002)
	C98	Copy of International Search Report mailed May 11, 2004

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